Chodipilli Ajay Kumar

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SUMMARY

AI/ML Engineer and Full-Stack Developer with 6 internships and 8+ real-world projects in Python, MERN stack, and cloud (AWS, Azure). Skilled in building predictive models, scalable applications, and automation tools with proven results: 92% accurate gesture recognition, 88% yield prediction, and 40% fewer scheduling conflicts. Strong collaborator with expertise in cloud deployment, algorithm optimization, and agile teamwork. Currently undergoing internship in **Infosys Springboard 6.0.**

SKILLS

Languages: Python, Java, SQL, JavaScript, C — **Web Development**: MERN (MongoDB, Express.js, React, Node.js), Flask, HTML, CSS — **ML/DS**: TensorFlow, Scikit-learn, OpenCV, NLP — **Cloud/Tools**: AWS,

Tools: Git, GitHub, Stream lit, MongoDB

EDUCATION

Jawahar Navodaya Vidyalaya	2014 – 2021
	Percentage-88.42/100
Anil Neerukonda Institute of Technology and Sciences	2022 – 2026
B. Tech in Artificial and Machine learning (AI and ML)	*CGPA: 9.04/10.0*

PROJECTS

Agriculture Yield Prediction — *Deep Learning, Scikit-Learn*   Jun 2024 - Jul 2024
- Conducted **exploratory data analysis** on environmental and agricultural datasets, empowering farmers to make **data-driven planting decisions**.

Road Lane Detection — *OpenCV, Python*   Sep 2024 – Sep 2024
- Designed and deployed a **real-time lane detection system** leveraging computer vision for autonomous driving scenarios.
- Optimized image processing pipeline, improving detection precision by 20%.

Doctor Appointment Booking — *MERN*   Jan 2025-Aug 2025
- Innovated a full-stack appointment booking platform with **secure authentication**, intuitive **patient/doctor dashboards**, and efficient scheduling workflows.
- Executed real-time database updates with MongoDB and Express.js, reducing booking conflicts by 40%.
  Applied **regression and classification models** to forecast crop yields with an accuracy of **88%**.

EXPERIENCE

AI Intern — *Next24 Technologies*   May 2024 – Jul 2024
- Innovated plant disease detection and sales forecasting models, raising predictive accuracy by 12%.
- Streamlined optimized algorithms into production, enabling faster inference and improved reliability 12%.

ML Intern — *Octa net Services*   Jul 2024 – Aug 2024
- Devised a crop yield forecasting model leveraging regression algorithms, reaching 88% predictive accuracy.
- Automated preprocessing workflows, trimming dataset preparation and training time by 20%.

AI Developer Intern — *Prodigy Info Tech*   Aug 2024 – Sep 2024
- Implemented a real-time hand gesture recognition system using deep learning, achieving 92% classification accuracy.
Streamlined training workflows and fine-tuned hyperparameters, reducing model latency by 15% for interactive use cases.

Web Developer Intern — *Meri skill*   Sep 2024 – Oct 2024
- Established role-based access control for three distinct user roles within MERN applications, restricting unauthorized data access, and adhering to the principle of least privilege.
- Refactored backend services and database queries, accelerating response times by 30% and enhancing overall UX.

AI-Azure Intern — *Edu net-Microsoft*   Jun 2025 – Jul 2025
- Engineered and produced AI/ML solutions on Microsoft Azure, boosting scalability and cutting inference latency by 10%.

AI-SPRINGBOARD INTERN — *INFOSYS*   *SEP 2025 —NOV 2025*

CERTIFICATIONS

- AWS Cloud Practitioner (AWS skill build)
- IBM Generative AI
- AWS Machine Learning
- JavaScript Developer (BCX)

LANGUAGES

- English
- Hindi
- Telugu